## WHAT IS CLAIMED IS:

1	1	An apparatus for processing a substrate, the apparatus comprising:		
2	(8	a) a first atmospheric deposition station;		
3	(t	a second atmospheric deposition station comprising an atmospheric		
4	pressure vapor d	eposition chamber, wherein the first atmospheric deposition station and the		
5		eric deposition station are coupled together; and		
5 /3 -	(c			
7	atmospheric depo	osition station and the second atmospheric deposition station.		
1	2.	The apparatus of claim 1 wherein the first atmospheric deposition		
2	station comprises a spin coating chamber.			
	3.	The apparatus of claim 1 wherein the first atmospheric deposition		
<u>u</u> 2	2 station comprises an ultrasonic spray deposition device.			
U 0 1 0 -	4.	The apparatus of claim 1 further comprising:		
<sub>a</sub> 2	ај	plasma system associated with the atmospheric pressure vapor deposition		
<b>1</b> 3	chamber.			
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¥1 □ 2 ~ ~	5.	The apparatus of claim 4 wherein the plasma system is a remote		
2	4	at is adapted to form a plasma upstream of the atmospheric vapor deposition		
31/4	chamber.			
1	6.	The apparatus of claim 1 further comprising a curing station.		
1	7.	The apparatus of claim 1 wherein the substrates are semiconductor		
2	substrates.			
1	8.	The apparatus of claim 1 wherein the first atmospheric deposition		
2	station is adapted to deposit a layer to be formed into a porous dielectric layer on the			
3	substrate, and second atmospheric deposition station is adapted to deposit a capping layer on			
4	the porous dielectric layer.			
1	9.	The apparatus of claim 1 wherein the atmospheric vapor deposition		
2	chamber is an atm	ospheric chemical vapor deposition (APCVD) chamber.		
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1	10.	The apparatus of claim 1 wherein the first atmospheric deposition			
2	station comprises a liquid dispenser.				
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1	11.	An apparatus for processing semiconductor substrates, the apparatus			
2	comprising:				
3	(a)	an atmospheric chemical vapor deposition chamber;			
4	(b)	a plasma system associated with the atmospheric chemical vapor			
5	deposition chamber	;			
\J^6	(c)	a spin coating chamber coupled to the atmospheric deposition			
SPA	chamber;				
<b>~ `8</b>	(d)	a curing station coupled to the atmospheric deposition chamber; and			
<b>貞</b> 9	(e)	a substrate handling system adapted to transfer substrates between the			
10	atmospheric deposition chamber, the spin coating chamber, and the curing station.				
8 9 10 1 1 2	12.	The apparatus of claim 11 wherein the plasma system is a remote			
<b>5</b> 2	plasma system adapted to generated a plasma upstream of the atmospheric chemical vapor				
1 1 2	deposition chamber.				
1	13.	The apparatus of claim 11 wherein the substrate handling system			
2	comprises a plurality	of substrate handlers with arms.			
1	14.	The apparatus of claim 11 wherein the apparatus is a cluster tool.			
1	15.	The apparatus of claim 11 wherein the spin coating chamber is adapted			
2	to deposit a layer that is to be formed into a porous dielectric layer, and wherein the				
3	atmospheric chemical vapor deposition chamber is adapted to deposit a cap layer on the				
4	porous dielectric laye	er.			
1	16.	A method for processing a substrate using a substrate processing			
2	apparatus, the metho				
3	(a)	depositing a first layer on a substrate at atmospheric pressure at a first			
4	atmospheric deposition station;				
5	(b)	transferring the substrate to an atmospheric vapor deposition chamber			
6	` '	ric deposition station using a substrate transfer system; and			
~	unitospiie	a substraint and using a substrate wattster system; and			

/	(c)	depositing a second layer on the substrate at atmospheric pressure		
8	within the atmospheric vapor deposition chamber at atmospheric pressure.			
1	17.	The method of claim 16 wherein the substrate is a semiconductor		
2	substrate.			
1	18.	The method of claim 16 wherein the first atmospheric deposition		
2	station comprises a spin coating chamber.			
1	19.	The method of claim 16 further comprising:		
2	formi	ng a porous dielectric layer from the deposited first layer, and wherein		
3	i a second layer on the substitute comprises depositing the second layer on the			
4				
1	20.	The method of claim 19 wherein the porous layer and the cap layer		
1 2	comprise dielectric n	comprise dielectric materials.		
1	21.	The method of claim 16 further comprising:		
<b>5</b> 2	curing	g the first layer at a curing station.		
1	22.	The method of claim 16 wherein the atmospheric vapor deposition		
2	chamber is an atmosp	pheric chemical vapor deposition (APCVD) chamber.		
1	23.	The method of claim 16 wherein depositing the first layer comprises		
2	depositing a liquid on the substrate.			